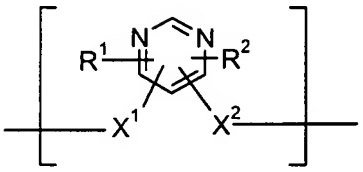
In the claims:

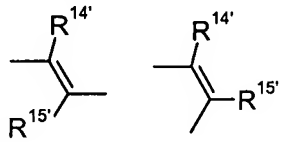
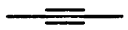
1. (withdrawn) A polymer comprising a repeating unit of the formula

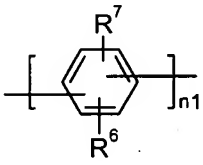
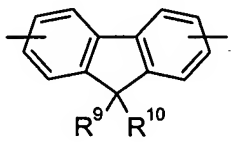
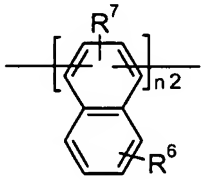
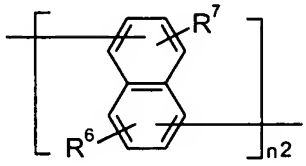


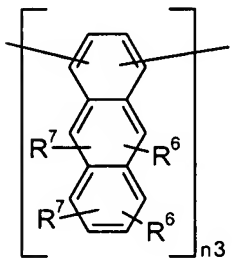
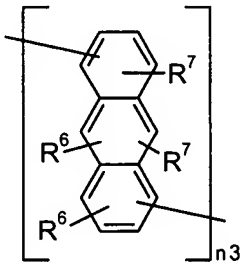
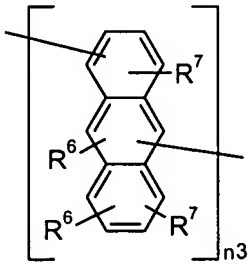
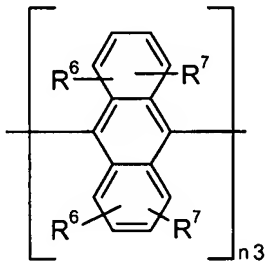
(I); wherein

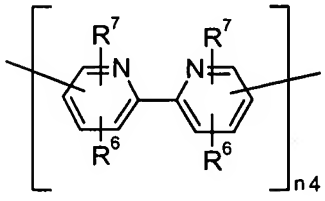
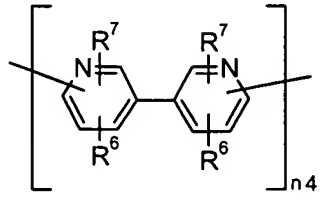
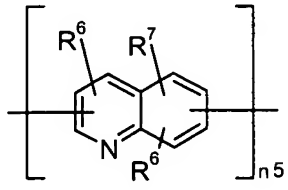
R^1 is C_{6-24}aryl or C_{2-20} heteroaryl each of which optionally can be substituted, and R^2 is H,

X^1 and X^2 are independently of each other a divalent linking group.

2. (withdrawn) A polymer according to claim 1, wherein X^1 and X^2 are independently of each other a group of the formula  , , or  ,

 ,  ,  ,  ,

 ,  ,  ,  ,

 ,  ,  ,

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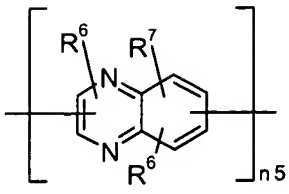
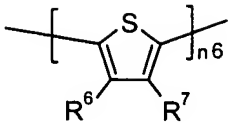
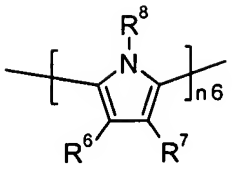
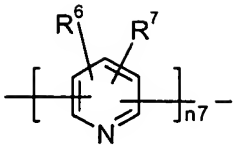
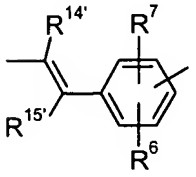
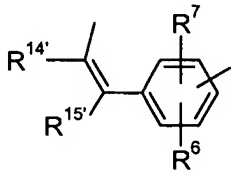
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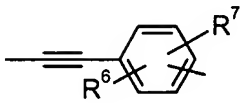

, wherein

n1, n2, n3, n4, n5, n6 and n7 are integers of 1 to 10, R^6 and R^7 are independently of each other H, C_1-C_{18}alkyl, C_1-C_{18}alkyl which is substituted by E and/or interrupted by D, C_5-C_{12}cycloalkyl, C_5-C_{12}cycloalkyl, which is substituted by E, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{20}heteroaryl, C_2-C_{20}heteroaryl which is substituted by E, C_2-C_{18}alkenyl, C_2-C_{18}alkynyl, C_1-C_{18}alkoxy, C_1-C_{18}alkoxy which is substituted by E and/or interrupted by D, C_7-C_{25}aralkyl, or -CO-R^{28},

R^8 is C_1-C_{18}alkyl, C_1-C_{18}alkyl which is substituted by E and/or interrupted by D, C_6-C_{24} aryl, or C_7-C_{25}aralkyl,

R^9 and R^{10} are independently of each other C_1-C_{18}alkyl, C_1-C_{18}alkyl which is substituted by E and/or interrupted by D, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{20}heteroaryl, C_2-C_{20}heteroaryl which is substituted by E, C_2-C_{18}alkenyl, C_2-C_{18}alkynyl, C_1-C_{18}alkoxy, C_1-C_{18}alkoxy which is substituted by E and/or interrupted by D, or C_7-C_{25}aralkyl, or

R^9 and R^{10} form a ring, which may optionally be substituted by R^6,

$R^{14'}$ and $R^{15'}$ are independently of each other H, C_1-C_{18}alkyl, C_1-C_{18}alkyl which is substituted by E and/or interrupted by D, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{20}heteroaryl, or C_2-C_{20}heteroaryl which is substituted by E,

D is -CO-, -COO-, -S-, -SO-, -SO_2-, -O-, -NR^{25}-, -$SiR^{30}R^{31}$-, -POR^{32}-, -CR^{23}=CR^{24}-, or -C≡C-, and

E is -OR^{29}, -SR^{29}, -$NR^{25}R^{26}$, -COR^{28}, -$COOR^{27}$, -$CONR^{25}R^{26}$, -CN, -$OCOOR^{27}$, or halogen, wherein

R^{23}, R^{24}, R^{25} and R^{26} are independently of each other H, C_6-C_{18}aryl, C_6-C_{18}aryl which is substituted by C_1-C_{18}alkyl, C_1-C_{18}alkoxy, C_1-C_{18}alkyl, or C_1-C_{18}alkyl which is interrupted by –O-, or

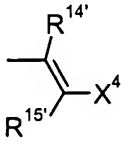
R^{25} and R^{26} together form a five or six membered ring, R^{27} and R^{28} are independently of each other H, C_6-C_{18}aryl, C_6-C_{18}aryl which is substituted by C_1-C_{18}alkyl, or C_1-C_{18}alkoxy, C_1-C_{18}alkyl, or C_1-C_{18}alkyl which is interrupted by –O-,

R^{29} is H, C_6-C_{18}aryl, C_6-C_{18}aryl, which is substituted by C_1-C_{18}alkyl, C_1-C_{18}alkoxy, C_1-C_{18}alkyl, or C_1-C_{18}alkyl which is interrupted by –O-,

R^{30} and R^{31} are independently of each other C_1-C_{18}alkyl, C_6-C_{18}aryl, or C_6-C_{18}aryl, which is substituted by C_1-C_{18}alkyl, and

R^{32} is C_1-C_{18}alkyl, C_6-C_{18}aryl, or C_6-C_{18}aryl, which is substituted by C_1-C_{18}alkyl.

3. (withdrawn) A polymer according claim 2, wherein R^1 and R^2 are independently of each other H, C_1-C_{18}alkyl, C_1-C_{18}alkyl which is substituted by E and/or interrupted by D, C_2-C_{18}alkenyl, C_2-C_{18}alkynyl, C_1-C_{18}alkoxy, C_1-C_{18}alkoxy which is substituted by E and/or interrupted by D,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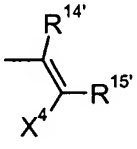
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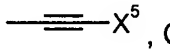
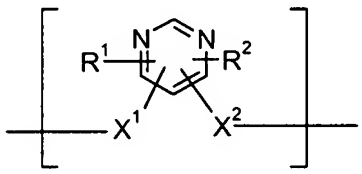

, C_7-C_{25}aralkyl, C_6-C_{24}aryl or C_2-C_{20}heteroaryl, which optionally can be substituted,

X^4 is C_1-C_{18}alkyl, C_1-C_{18}alkyl which is substituted by E and/or interrupted by D, C_6-C_{24}aryl, which optionally can be substituted,

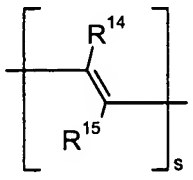
X^5 is C_1-C_{18}alkyl, C_6-C_{24}aryl, C_6-C_{24}aryl substituted by -OC_1-C_{18}alkyl or -OC_6-C_{24}aryl.

4. (currently amended) A polymer according to claim 1, comprising a repeating unit of the formula


(I); wherein

R^1 ~~and R^2, are independently of each other an organic substituent,~~ is C_{6-24}aryl or C_{2-20} heteroaryl each of which optionally can be substituted, and R^2 is H,

X^1 and X^2 are independently of each other a divalent linking group which co-polymer also

comprises a co-monomer T which is selected from the group consisting of 
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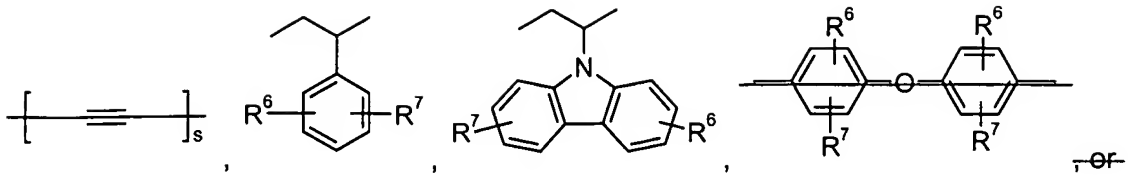
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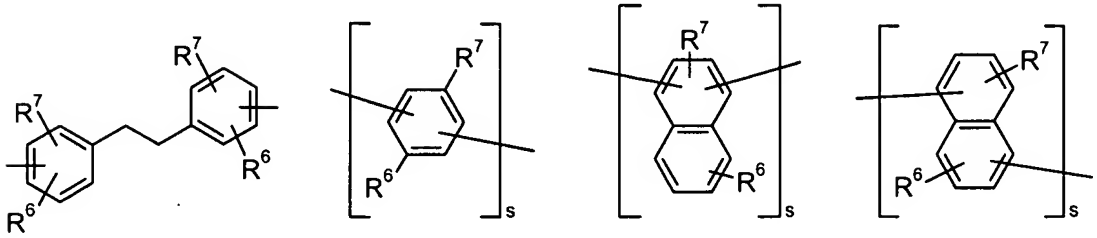
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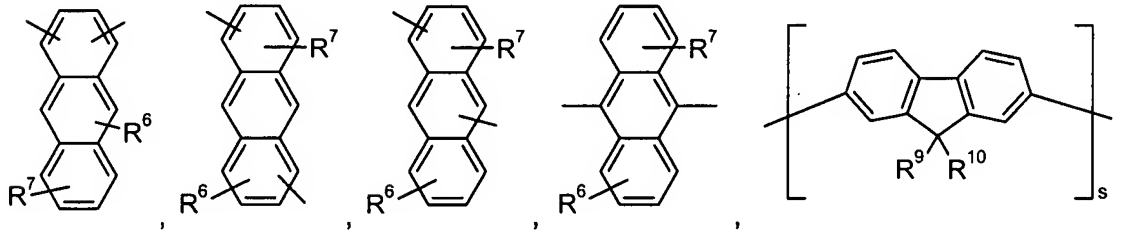
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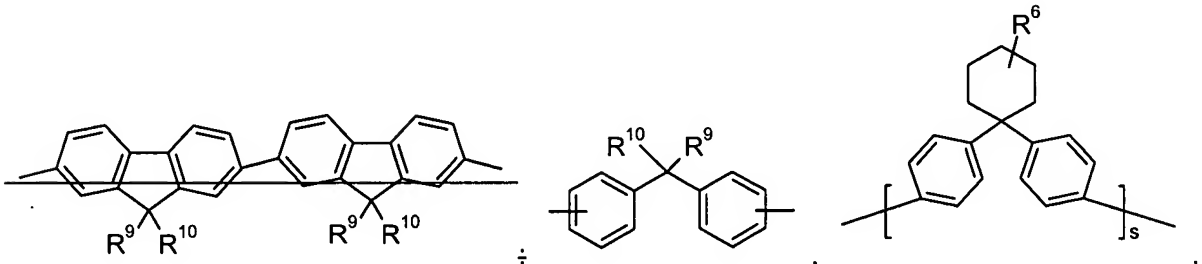
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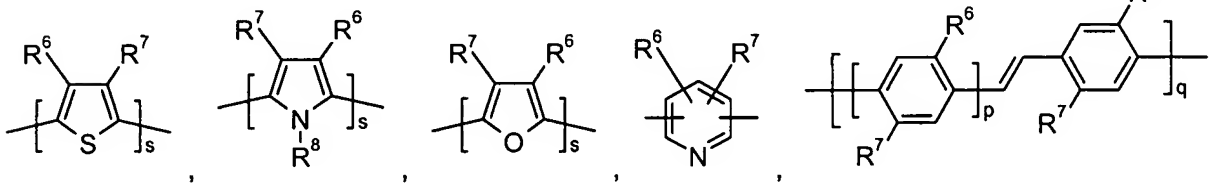
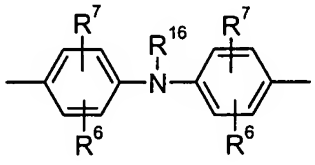

, and


, wherein

R^{16} is H, C_6-C_{18}aryl, C_6-C_{18}aryl which is substituted by C_1-C_{18}alkyl, C_1-C_{18}alkyl, C_7-C_{25}aralkyl, or C_1-C_{18}alkyl which is interrupted by –O-,

p is an integer from 1 to 10,

q is an integer from 1 to 10,

s is an integer from 1 to 10,

R^6 and R^7 are independently of each other H, C_1-C_{18}alkyl, C_1-C_{18}alkyl which is substituted by E and/or interrupted by D, C_5-C_{12}cycloalkyl, C_5-C_{12}cycloalkyl, which is substituted by E, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{20}heteroaryl, C_2-C_{20}heteroaryl which is substituted by E, C_2-C_{18}alkenyl, C_2-C_{18}alkynyl, C_1-C_{18}alkoxy, C_1-C_{18}alkoxy which is substituted by E and/or interrupted by D, C_7-C_{25}aralkyl, or -CO-R^{28},

R^8 is C_1-C_{18}alkyl, C_1-C_{18}alkyl which is substituted by E and/or interrupted by D, C_6-C_{24} aryl, or C_7-C_{25}aralkyl,

R^9 and R^{10} are independently of each other C_1-C_{18}alkyl, C_1-C_{18}alkyl which is substituted by E and/or interrupted by D, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{20}heteroaryl, C_2-C_{20}heteroaryl which is substituted by E, C_2-C_{18}alkenyl, C_2-C_{18}alkynyl, C_1-C_{18}alkoxy, C_1-C_{18}alkoxy which is substituted by E and/or interrupted by D, or C_7-C_{25}aralkyl, or

R^9 and R^{10} form a five- or six-membered ring, which may optionally be substituted by R^6,

$R^{14'}$ and $R^{15'}$ are independently of each other H, C_1-C_{18}alkyl, C_1-C_{18}alkyl which is substituted by E and/or interrupted by D, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{20}heteroaryl, or C_2-C_{20}heteroaryl which is substituted by E,

D is -CO-, -COO-, -S-, -SO-, -SO_2-, -O-, -NR^{25}-, -$SiR^{30}R^{31}$-, -POR^{32}-, -CR^{23}=CR^{24}-, or -C≡C-, and

E is -OR^{29}, -SR^{29}, -$NR^{25}R^{26}$, -COR^{28}, -$COOR^{27}$, -$CONR^{25}R^{26}$, -CN, -$OCOOR^{27}$, or halogen,

wherein

R^{23}, R^{24}, R^{25} and R^{26} are independently of each other H, C_6-C_{18}aryl, C_6-C_{18}aryl which is substituted by C_1-C_{18}alkyl, C_1-C_{18}alkoxy, C_1-C_{18}alkyl, or C_1-C_{18}alkyl which is interrupted by –O-, or

R^{25} and R^{26} together form a five or six membered ring, R^{27} and R^{28} are independently of each other H, C_6-C_{18}aryl, C_6-C_{18}aryl which is substituted by C_1-C_{18}alkyl, or C_1-C_{18}alkoxy, C_1-C_{18}alkyl, or C_1-C_{18}alkyl which is interrupted by –O-,

R^{29} is H, C_6-C_{18}aryl, C_6-C_{18}aryl, which is substituted by C_1-C_{18}alkyl, C_1-C_{18}alkoxy, C_1-C_{18}alkyl, or C_1-C_{18}alkyl which is interrupted by –O-,

R^{30} and R^{31} are independently of each other C_1-C_{18}alkyl, C_6-C_{18}aryl, or C_6-C_{18}aryl, which is substituted by C_1-C_{18}alkyl, and

R^{32} is C_1-C_{18}alkyl, C_6-C_{18}aryl, or C_6-C_{18}aryl, which is substituted by C_1-C_{18}alkyl,

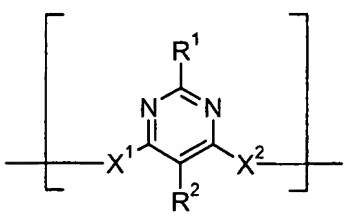
or

R^9 and R^{10} together form a group of formula =$CR^{100}R^{101}$, wherein

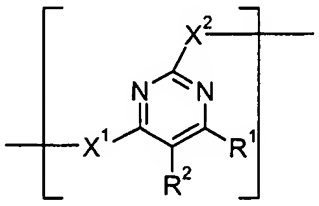
R^{100} and R^{101} are independently of each other H, C_1-C_{18}alkyl, C_1-C_{18}alkyl which is substituted by E and/or interrupted by D, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, or C_2-C_{20}heteroaryl, or C_2-C_{20}heteroaryl which is substituted by E, and

R^{14} and R^{15} are independently of each other H, C_1-C_{18}alkyl, C_1-C_{18}alkyl which is substituted by E and/or interrupted by D, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, or C_2-C_{20}heteroaryl, C_2-C_{20}heteroaryl which is substituted by E.

5. (withdrawn) A polymer according to claim 1, comprising repeating units of formula Ia or Ib,

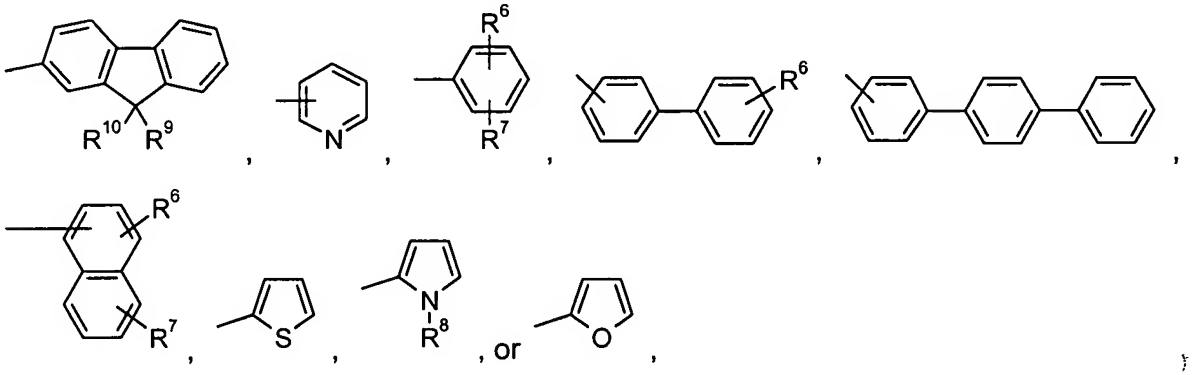


(Ia),



(Ib)

wherein R^1 is a group of formula



wherein R^2 is H,

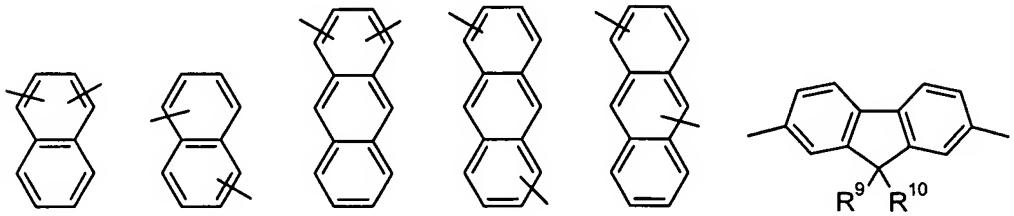
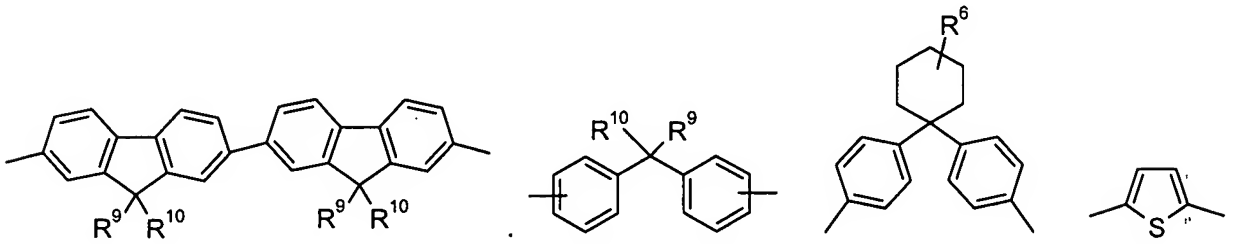
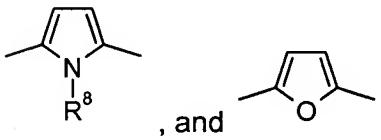
R^6 and R^7 are independently of each other H, C_1-C_{12}alkyl, C_5-C_{12}cycloalkyl, C_6-C_{24}aryl, which can be substituted by –O-C_1-C_{12}alkyl, or C_1-C_{18}alkoxy,

R^8 is C_1-C_{18}alkyl, C_1-C_{18}alkyl interrupted by one or two oxygen atoms, or C_6-C_{12}aryl, which optionally can be substituted by C_1-C_{12}alkyl, or C_1-C_{12}alkoxy,

R^9 and R^{10} are independently of each other H, C_1-C_{12}alkyl, or C_1-C_{12}alkoxy,

R^9 and R^{10} are independently of each other C_1-C_{18}alkyl, especially C_4-C_{12}alkyl, which can be interrupted by one or two oxygen atoms.

6.(previously presented) A polymer according to claim 4, comprising a co-monomer T which is selected from the group consisting of

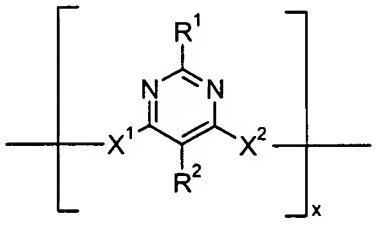
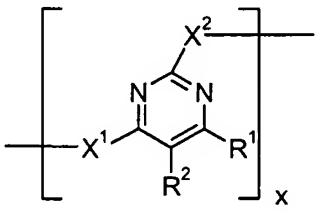





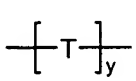
, and , wherein R^8 is C_1-C_{18}alkyl,

R^9 and R^{10} are independently of each other C_1-C_{18}alkyl, which can be interrupted by one or two oxygen atoms, or

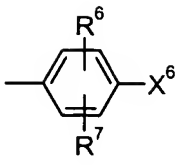
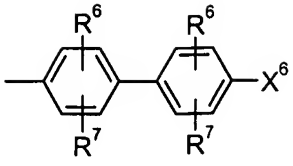
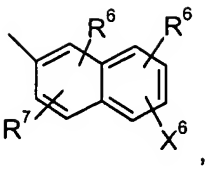
R^9 and R^{10} form a five or six membered carbocyclic ring, which optionally can be substituted by C_1-C_8alkyl.

7. (curently amended) A polymer according to claim 4, comprising a repeating unit of formula


(Ia), or

(Ib), and

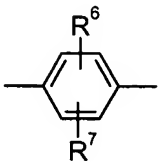
a co-monomer  , wherein

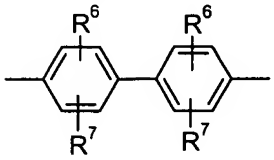
x is in the range of ~~0.005 to 1~~ 0.4 to 0.6, and y is in the range of ~~0.995 to 0~~ 0.6 to 0.4, wherein the sum of x and y is 1,

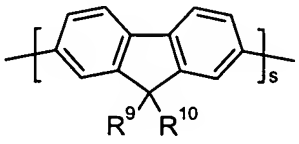
R^1 is a group of formula  , or  , or  , wherein

X^6 is H, C_1-C_{18}alkyl, cyclohexyl, or C_1-C_{18}alkoxy,

R^2 is H,

X^1 and X^2 are independently of each other a group of formula  , or

 , and

T is a group of formula  , wherein s is one or two, and R^9 and R^{10} are independently of each other C_1-C_{18}alkyl, which can be interrupted by one or two oxygen atoms, and

R^6 and R^7 are independently of each other H, C_1-C_{12}alkyl, C_5-C_{12}cycloalkyl, C_6-C_{24}aryl, which can be substituted by –O-C_1-C_{12}alkyl, or C_1-C_{18}alkoxy.

8-11. (cancelled)

12. (withdrawn) An optical device or a component therefore, comprising a substrate and a polymer according to claim 1.

13 .(withdrawn) An optical device according to claim 12, wherein the optical device comprises an electroluminescent device.

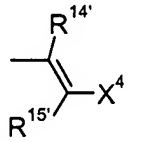
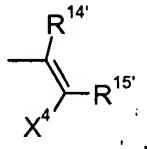
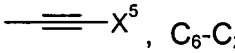
14 .(withdrawn) An optical device according to claim 13, wherein the electroluminescent device comprises

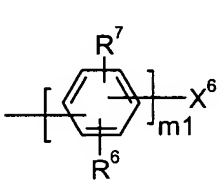
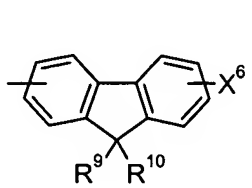
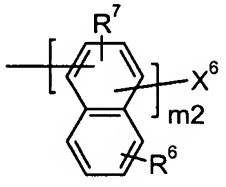
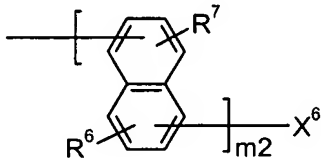
(a) a charge injecting layer for injecting positive charge carriers,

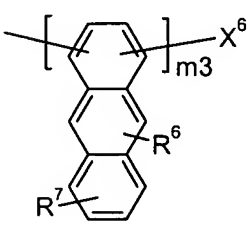
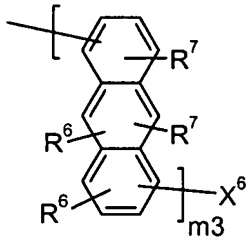
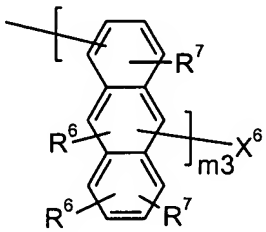
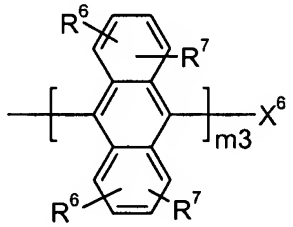
(b) a charge injecting layer for injecting negative charge carriers,

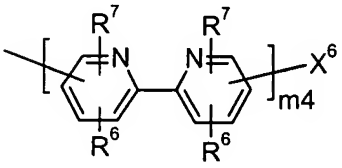
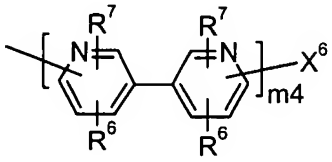
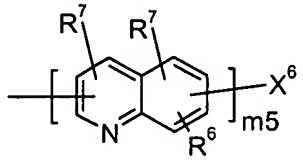
(c) a light-emissive layer located between the layers (a) and (b) comprising a polymer according to claim 1.

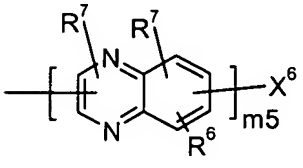
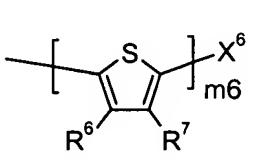
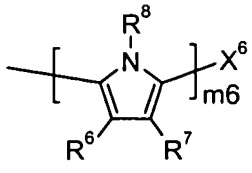
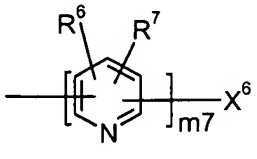
15. (cancelled)

16. (withdrawn) A polymer according to claim 3, wherein when R^1 or R^2 is  ,  ,  , C_6-C_{24}aryl or C_2-C_{20}heteroaryl, it is selected from the group consisting of the formulae

 ,  ,  ,  ,

 ,  ,  ,  ,

 ,  ,  ,

 ,  ,  ,  ,

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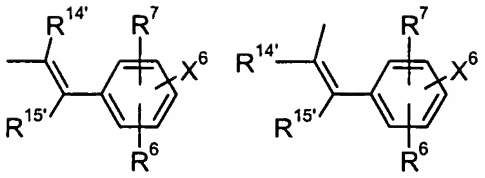
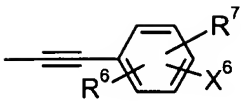


and


wherein m1, m2, m3, m4, m5, m6 and m7 are integers of 1 to 10,

X^6 is H, C_1-C_{18}alkyl, C_1-C_{18}alkyl which is substituted by E and/or interrupted by D, C_6-C_{30}aryl, which optionally can be substituted,C_2-C_{26}heteroaryl, which optionally can be substituted, C_2-C_{18}alkenyl, C_2-C_{18}alkynyl, C_1-C_{18}alkoxy, C_1-C_{18}alkoxy which is substituted by E and/or interrupted by D, or C_7-C_{25}aralkyl,

R^{11}, R^{12} and R^{13} are independently of each other H, C_1-C_{18} alkyl, C_1-C_{18}alkyl which is substituted by E and/or interrupted by D, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{18}alkenyl, C_2-C_{18}alkynyl, C_1-C_{18}alkoxy, C_1-C_{18}alkoxy which is substituted by E and/or interrupted by D, or C_7-C_{25}aralkyl.

17-21. (cancelled)